U.S. Patent Application No. 10/017,718
Title: GENE-TARGETED ANIMAL MODEL OF
APOLIPOPROTEIN E4 DOMAIN INTERACTION AND
USES THEREOF
Paula A. Borden (Reg. No. 42,344)
(650) 833-77710 Attorney Docket No. UCAL-222



## FIG. 5A

Ba CynM Rt Mo GP	P	PT-GL GVV	DV VTD VTD V E	L PAV	P P D P N P	ELALGI Q N Q N S	RFWI	DYI	RWV		D D D	VQEE	50
Rb		_		AR KA		0				S	D D		
Cow	DM GELG		LTT	PRGKD -AG T		Q A A					D	G	
Dog* SeaL	Q EL EL E	P P		-AG I -AG A		A					D	Ŭ	
Sean	ט עט	_		110 11	_	••							
HU Ba	LLSSQVT P	TT		TMKELK	AYKS	ELEEQ	S	VAI	EETR	AR	LSKE	ELQAA	100
CynM	P	TT			.,		S				7\	V T	
Rt	Q	TV			K		G				A	V T V	
Мо	Q	T	ED		K	7.7	G		D 1	,	G A	V	
GP	N	TL			D A	KE		n# /	D F		V		
Rb		TM		V	-	6			2				
Cow	NT I		E	V	E	G			2 (		V VA		
Dog	V NT	T		V	A RA			MT: M		_	VA		
SeaL	V N	TT	E	I	M		G	11 .	J ,	2	VII		
HU	QARLGAI	MEDVF	RGRLV		'QAML	GQSTE			LASF	HLF	RKLRI	KRLLR	150
Ва			S	S				A					
CynM			C	~									
			S	S				A					
Rt			N G		NT			S	ST		М	М	
Rt Mo		L L	N G	N N	NT HT			S A	ST		M	M	
			N G	N N		S		S A A	ST T	P			
Мо	E	L E	N G	N N S	НТ	S		S A A A	ST T FS	P	M M	M	
Mo GP	E S	L E	N G N G N S	N N S	НТ	S		S A A	ST T FS	P	M	M Q	
Mo GP Rb Cow		L E	N G N G N S	N N S N S	HT A	S		S A A A A	ST T FS M F	P M	M M	M Q V	
Mo GP Rb	S	L E	N G N G N S CN A	N N S S	HT A			S A A A	ST T FS M F		M M	M Q	
Mo GP Rb Cow Dog	S R	L E (	N G N S CN A C A T S	N N S S S S S I	HT A	S		S A A A A A	ST T FS M F F	M M	M M P	M Q V V GSLAG	G 200
Mo GP Rb Cow Dog SeaL	S R RS	L E (	N G N S CN A C A T S	N N S S S S S I	HT A	S		S A A A A A	ST T FS M F F	M M	M M P	M Q V V GSLAG	5
Mo GP Rb Cow Dog SeaL HU Ba	S R RS	L E (	N G N S CN A C A T S	N N S S S S S I	HT A C RGLSA	S		S A A A A A	ST T FS M F F	M M VR	M M P	M Q V V GSLAG	5 5
Mo GP Rb Cow Dog SeaL HU Ba CynM	S R RS	L E (	N G N S CN A C A T S	N N S S S S S I	HT A RGLSA V	S		S A A A A A	ST T FS M F GGR	M M VRA	M M P AATV	M Q V V GSLAG S	5 S
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt	S R RS DADDLQI	L E (	N G N G N S CN A C A T S	N N S S S S S S S S S S S S S S S S S S	HT A RGLSA V V	S		S A A A A A	ST T FS M F F	M M VR2	M M P AATV I NL I NL	M Q V V GSLAC S AG A	7 ? ?
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt Mo	S R RS	L E (	N G N G N S CN A N T T S YQAGA	N N S S S S S S S S S S S S S S S S S S	HT A C C C C C C V V V V	S	GPI	S A A A A A	ST T FS M F F	M M VR2	M M P AATV I NL I NL	M Q V V GSLAG S AG A AG A	7 ? ?
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt Mo GP	S R RS DADDLQI E	L E ( L(	N G N S N S CN A N T T S YQAGA K	N N S S S I	HT  RGLSA V V V V	S	GPI	S A A A A A	ST T FS M F C QGR	M M VR2	M M P AATV I NL I NL	M Q V V GSLAC S AG A	7 ? ?
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt Mo GP Rb	S R RS DADDLQI E I E	L E ( L( (RLAV)	N G N S N S N T T S YQAGA K K	N N S S S I	HT  RGLSA V V V V V	S IRERI	GPI	S A A A A A VE	ST T FS M F C QGR	M M VR <sup>2</sup> Q ; LQ L	M M P AATV	M Q V V GSLAG S AG A AG A	7 ? ?
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt Mo GP	S R RS DADDLQI E I E E K	L E ( L( (RLAV)	N G N S N S N T T S YQAGA K K	N N S S S S S S S S S S S S S S S S S S	HT  RGLSA V V V V V V	S IRERI	∴GPI S	S A A A A A VE	ST T FS M F F QGR	M M  Q T  Q T  LQ  LQ  L  S  E 1	M M P AATV	M Q V V GSLAC S AG A AG A ST ST	3 A A
Mo GP Rb Cow Dog SeaL HU Ba CynM Rt Mo GP Rb	S R RS DADDLQI E I E E	L E ( L( (RLAV)	N G N S N S N T T S YQAGA K K	N N S S S S S S S S S S S S S S S S S S	HT  RGLSA V V V V V V	S IRERI	∴GPI S	S A A A A A VE	ST T FS M F F QGR	M M VR <sup>2</sup> Q ; LQ L	M M P AATV	M Q V V GSLAG S AG A AG A	7 ? ?

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## FIG. 5B

1111	QPLQE	D 7\ ∩ 7	WGERT	.PAF	MF.	EMO	SE	የጥፑ	DRI	וח.	ZVKE	OVA	EVRAL	KLE	EOAOC	I	250
HU	ŎΡΤΌΕΙ	VAQE	L	11/1/11	u 1L	ΨI.1 <b>\</b>	J <b>O</b> I	`				2			~ ~ ~-		
Ва																	
CynM			L		т.	7.7	NT.C	٦.		5	R	ME	S	М	Т		
Rt	RD		LSD I	_	L	V	NÇ			Ε			_		т		
Mo	RD		F D I	_	L	V	Nζ			E	_	HME		M	1		
GP			QM	I G	$\mathbf{L}$	KV	ζ	ĮΑ		Ε	R	ME	V	V		- <b>-</b>	
Rb	R			GF	$^{ m 1L}$	V		Α		E	R	Ε	V	V	Α		
Cow	L	Ε	RQK	НG	L	V	V	ΑÇ	)	]	KIRÇ	) LE	Н	V		M	
Dog	L	D	QQ	GÇ	ΩL		S	Α	GH	Ε	MR	ΙQ	V	M	D		
SeaL	R	VN	L QQ			V		A	SH		R	ME	Q	M	N	M	
HU	RLQAE	λ E(-):	A DT. K S M	सम्ब	DT.\	EDI	MOI	3OE	JAGI	٦V.	EKVO	VAAC	GTSA	API	/PSDNI	ł	299
		nr Qr	TINDI	•			·-×-						АТ				
Ва	S												АТ		I		
CynM	S	_	T C						N	М	I	S		א ב	- STTVPI	LEN	0
Rt		I	ΙG		_										r VAQ		
Mo		I	G		Ι		H		N	M	_						V
GP	G				MM	1	R		N	I		۷	AT				
Rb											L				AAPIE	ИQ	
Cow			R									L L	RP P				
Dog	QK				I				D				A IP	TS	KPVEE	Р	
SeaL	õ		G						V				P	TT!	P VET	K	